WEST Search History

DATE: Monday, March 06, 2006

Hide?	Set Nam	<u>e Query</u>	Hit Count
	DB=PG	SPB, USPT; PLUR=YES; OP=ADJ	
	L15	l4 and (134/18 or 134/25.2).ccls.	26
	DB=EP	AB,JPAB,DWPI,TDBD; PLUR=YES	; OP=ADJ
	L14	L11 and (wash motor)	1
	L13	L11 and (current detection)	0
	L12	L11 with (current detection)	0
	L11	control\$ with dishwasher	1526
	L10	control\$ with dishwasher	1526
	DB=PG	PB, USPT; PLUR=YES; OP=ADJ	
	L9	L4 and (current detection)	1
	L8	L4 and discontinu\$	10
	L7	L4 and (electrical characteristic\$)	1
	L6	L4 with (electrical characteristic\$)	1
	L5	L4 with determin\$	2
	L4	L2 with motor	112
	L3	L2 with (wash motor)	1
	L2	L1 with (driv\$ or operat\$)	563
	L1	control\$ with dishwasher	1214

END OF SEARCH HISTORY

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Search Results - Record(s) 21 through 26 of 26 returned.

☐ 21. Document ID: US 6432216 B1

Using default format because multiple data bases are involved.

L15: Entry 21 of 26

File: USPT

Aug 13, 2002

US-PAT-NO: 6432216

DOCUMENT-IDENTIFIER: US 6432216 B1

TITLE: Soil sensing system for a dishwasher

DATE-ISSUED: August 13, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Thies; Edward L.

Niles MI

US-CL-CURRENT: <u>134/18</u>; <u>134/104.1</u>, <u>134/172</u>, <u>134/25.2</u>, <u>134/56D</u>, <u>134/57D</u>, <u>134/58D</u>

Full Title Citation Front Review Classification Date Reference Sequences Altachineris Claims KMC Draw De

☐ 22. Document ID: US 5900070 A

L15: Entry 22 of 26

File: USPT

May 4, 1999

US-PAT-NO: 5900070

DOCUMENT-IDENTIFIER: US 5900070 A

TITLE: Automatic thermal input system for a dishwasher

DATE-ISSUED: May 4, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Jarvis; Wilbur W. St. Joseph ΜI Deming; Charles P. Stevensville ΜI Patera; Ginger E. St. Joseph ΜI Roth; Ryan K. St. Joseph ΜI Thies; Edward L. Niles MΙ Stady; Kathryn A. Stevensville MI

US-CL-CURRENT: <u>134/18</u>; <u>134/104.4</u>, <u>134/108</u>, <u>134/109</u>, <u>134/25.2</u>

ABSTRACT:

A thermal input system is provided for a dishwasher having an interior wash chamber receiving soiled dishes and wash liquid. A heater is disposed in a sump region of the wash chamber along with a wash pump which operates to recirculate wash liquid through out the wash chamber. A soil collection chamber receives a portion of recirculating wash liquid from the wash pump wherein soils entrained in the wash liquid are captured within the soil collection chamber. A pressure sensor senses fluid pressure within the soil collection chamber. Control means are provided for energizing the heater during a thermal hold period in response to the pressure within the soil collector exceeding a predetermined limit pressure. In particular, the control means operates to sequence the dishwasher through a predetermined period of operation but bypasses the thermal hold cycle when the pressure within the soil collector does not exceed the predetermined limit pressure.

15 Claims, 4 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 3

Full Title Citation Front Review Classification Date Reference Sexuences Attachments. Claims KMC Draw. De

☐ 23. Document ID: US 4735219 A

L15: Entry 23 of 26 File: USPT Apr 5, 1988

US-PAT-NO: 4735219

DOCUMENT-IDENTIFIER: US 4735219 A

TITLE: Electronic appliance control with usage responsive default cycle

DATE-ISSUED: April 5, 1988

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Seeland; Rodney F. Lincoln Township, Berrien County MI

US-CL-CURRENT: <u>134/56R</u>; <u>134/18</u>, <u>134/25.2</u>, <u>134/57R</u>

ABSTRACT:

In an appliance operable in any of a number of different cycles, selectable by a user, a default control selects a default cycle of operation of the appliance in an absence of a current user selection. The control counts the number of times each cycle is executed by the appliance and compares the relative magnitudes of the cycle counts to identify the cycle that currently is the "favorite". In the preferred embodiment, default cycles and options in a dishwasher are selected based upon prior patterns of usage.

24 Claims, 6 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 5 Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KiMC Draw De

☐ 24. Document ID: US 4561904 A

L15: Entry 24 of 26

File: USPT

Dec 31, 1985

US-PAT-NO: 4561904

DOCUMENT-IDENTIFIER: US 4561904 A

** See image for Certificate of Correction **

TITLE: Control system and method of controlling a dishwashing machine

DATE-ISSUED: December 31, 1985

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Eberhardt, Jr.; Mark E. Troy ОН

US-CL-CURRENT: <u>134/18</u>; <u>134/25.2</u>, <u>134/57D</u>, <u>134/72</u>

ABSTRACT:

A control system and method of controlling a conveyor-type dishwasher is disclosed, with the dishwasher including a plurality of sequentially arranged work stations, each of the stations performing an operation on ware located therein such as washing, rinsing, drying and the like. A conveyor carries the ware into the dishwasher, past each of the stations, and out of the dishwasher. A sensor mounted at a reference point adjacent the conveyor near the entrance for ware to the dishwasher senses the presence of ware items on the conveyor as the items are carried past the reference point. Positional advance of the conveyor is monitored to define a current conveyor position and track movement of the items through the dishwasher. Controls responsive to the sensor start operations within each of the stations in response to movement of the conveyor sufficient to carry items from the reference point to the station, and stop operations in response to movement of the conveyor sufficient to carry the items from the station.

14 Claims, 37 Drawing figures Exemplary Claim Number: 14 Number of Drawing Sheets: 32

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences Attachments	Claims	KOMC	Draw, De

☐ 25. Document ID: US 4331484 A

L15: Entry 25 of 26 File: USPT

May 25, 1982

US-PAT-NO: 4331484

DOCUMENT-IDENTIFIER: US 4331484 A

TITLE: Energy saving dishwashing method with heater control

DATE-ISSUED: May 25, 1982

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Helwig, Jr.; William F. Downers Grove IL 60516

US-CL-CURRENT: 134/18; 134/25.2

ABSTRACT:

A control circuit for a dishwashing machine to economize its energy consumption and usage. In order to conserve energy, the dishwashing machine has a control system for automatically actuating the components such as the heating elements of the dishwashing machine.

1 Claims, 1 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Signification	Altactments	Claims	KWIC	Draw, De
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☐ 26. Document ID: US 4070204 A

L15: Entry 26 of 26

File: USPT Jan 24, 1978

US-PAT-NO: 4070204

DOCUMENT-IDENTIFIER: US 4070204 A

TITLE: Low-energy dishwasher

DATE-ISSUED: January 24, 1978

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hardy; Albert L. Louisville KY
Braun; Edwin R. Jeffersontown KY
Hall, Jr.; Edwin M. Louisville KY

US-CL-CURRENT: <u>134/25.2</u>; <u>134/30</u>, <u>134/36</u>, <u>134/57D</u>, <u>134/95.2</u>

ABSTRACT:

A method of cleaning dishes, utilizing a dishwasher apparatus connected to both hot and cold-water lines, the method includes: beginning with one or more cold-water pre-rinses, then providing a hot-water wash, and, finally, concluding with one or more cold-water post-rinses and a last hot-water rinse. Drying then follows with air being circulated through the dishwasher wash chamber. The drying is aided by the residual heat of the dishes from the last rinse.

4 Claims, 1 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 1

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DATE: Monday, March 06, 2006

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	L13	L11 and (current detection)	0
	L12	L11 with (current detection)	0
	L11	control\$ with dishwasher	1526
	L10	control\$ with dishwasher	1526
	DB=PG	PB,USPT; PLUR=YES; OP=ADJ	
	L9	L4 and (current detection)	1
	L8	L4 and discontinu\$	10
	L7	L4 and (electrical characteristic\$)	1
	L6	L4 with (electrical characteristic\$)	1
	L5	L4 with determin\$	2
	L4	L2 with motor	112
	L3	L2 with (wash motor)	1
	L2	L1 with (driv\$ or operat\$)	563
	L1	control\$ with dishwasher	1214

END OF SEARCH HISTORY

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First Hit Clear **Generate Collection Fwd Refs Bkwd Refs** Print Generate OACS

Search Results - Record(s) 1 through 10 of 10 returned.

☐ 1. Document ID: US 20040099287 A1

Using default format because multiple data bases are involved.

L8: Entry 1 of 10

File: PGPB

May 27, 2004

PGPUB-DOCUMENT-NUMBER: 20040099287

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040099287 A1

TITLE: Dishwasher control method and dishwasher using the same

PUBLICATION-DATE: May 27, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Shin, Dong Hoon

Changwon-si

KR

US-CL-CURRENT: <u>134/18</u>; <u>134/25.2</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw, De
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☐ 2. Document ID: US 6432216 B1

L8: Entry 2 of 10

File: USPT

Aug 13, 2002

US-PAT-NO: 6432216

DOCUMENT-IDENTIFIER: US 6432216 B1

TITLE: Soil sensing system for a dishwasher

DATE-ISSUED: August 13, 2002

INVENTOR-INFORMATION:

NAME CITY ZIP CODE STATE COUNTRY

Thies; Edward L. Niles MΤ

US-CL-CURRENT: $\underline{134}/\underline{18}$; $\underline{134}/\underline{104.1}$, $\underline{134}/\underline{172}$, $\underline{134}/\underline{25.2}$, $\underline{134}/\underline{56D}$, $\underline{134}/\underline{57D}$, $\underline{134}/\underline{58D}$

ABSTRACT:

A soil sensing system is provided for a dishwasher having an interior wash chamber receiving soiled dishes wherein during a wash cycle wash liquid is sprayed throughout the wash chamber through an upper wash arm and a lower wash arm and

Record List Display Page 2 of 8

soils are collected in a soil collector. The soil collector includes a filter screen which is backwashed by the wash arm. A pressure sensor measures the pressure within the soil collector to provide an input which corresponds to the presence of soils. In order to improve the sensitivity of the pressure based soil sensing, the lower wash arm is deactivated. Deactivating the lower wash arm ceases the backflushing of the collection chamber's filter screen and allows pressure to build within the soil collector in the presence of only light or oily soils. A response is activated if the actual pressure within the collection chamber is greater than a predetermined limit pressure. The response may consist of the addition of heat to the water, the addition of time to the cycle, the draining of soiled wash liquid, the addition of detergent or possibly the addition of a wetting agent.

22 Claims, 4 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	STEEL STEEL	Algelmens	Claims	KMIC	Draw, De

☐ 3. Document ID: US 5280227 A

L8: Entry 3 of 10

File: USPT

Jan 18, 1994

US-PAT-NO: 5280227

DOCUMENT-IDENTIFIER: US 5280227 A

TITLE: Electronic control for an appliance

DATE-ISSUED: January 18, 1994

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Bashark; Larry T. St. Joseph Township, Berrien County MI

US-CL-CURRENT: 318/751; 100/229A, 318/286, 318/455, 318/817

ABSTRACT:

An electronic control for a motor which eliminates the motor centrifugal switch and more particularly a control for a domestic refuse compactor which permits the user to control the approximate full trash bag weight and obtain more compaction from a split phase induction drive motor. A ferrite core sensor on the main winding of the drive motor samples the lagging phase angle of the motor main winding current during a compaction stroke. A low force cycle is achieved by terminating the stroke as soon as phase samples fall below a threshold defined at the start of each cycle by a locked motor main winding phase sample acquired prior to starting the motor. A medium force cycle terminates the stroke when compaction forces exceed the main winding breakdown torque. A high force cycle is achieved by re-activating a motor start winding when compaction forces exceed the main winding breakdown torque and terminating the stroke as soon as the phase samples exceed a threshold defined at the start of each cycle during motor starting. The control uses programmed referencing techniques to eliminate factory pre-calibration.

65 Claims, 27 Drawing figures Exemplary Claim Number: 1

Record List Display Page 3 of 8

Number of Drawing Sheets: 17

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw, De

☐ 4. Document ID: US 5038091 A

L8: Entry 4 of 10

File: USPT

Aug 6, 1991

US-PAT-NO: 5038091

DOCUMENT-IDENTIFIER: US 5038091 A

TITLE: Electronic control for an appliance

DATE-ISSUED: August 6, 1991

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Bashark; Larry T. St. Joseph Township, Berrien County MI

US-CL-CURRENT: 318/809; 100/229A, 318/280, 318/727, 318/751, 318/799, 318/817

ABSTRACT:

An electronic control for a motor which eliminates the motor centrifugal switch and more particularly a control for a domestic refuse compactor which permits the user to control the approximate full trash bag weight and obtain more compaction from a split phase induction drive motor. A ferrite core sensor on the main winding of the drive motor samples the lagging phase angle of the motor main winding current during a compaction stroke. A low force cycle is achieved by terminating the stroke as soon as phase samples fall below a threshold defined at the start of each cycle by a locked motor main winding phase sample acquired prior to starting the motor. A medium force cycle terminates the stroke when compaction forces exceed the main winding breakdown torque. A high force cycle is achieved by re-activating a motor start winding when compaction forces exceed the main winding breakdown torque and terminating the stroke as soon as the phase samples exceed a threshold defined at the start of each cycle during motor starting. The control uses programmed referencing techniques to eliminate factory pre-calibration.

79 Claims, 27 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 17

Full Title Cita	ation Front Re	eview Classification	Date Reference	Seguences disaments	Claims KMC Draw De
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□ 5. Document ID: US 4703306 A

L8: Entry 5 of 10

File: USPT

Oct 27, 1987

US-PAT-NO: 4703306

DOCUMENT-IDENTIFIER: US 4703306 A

Page 4 of 8 Record List Display

TITLE: Appliance system

DATE-ISSUED: October 27, 1987

INVENTOR-INFORMATION:

ZIP CODE NAME CITY STATE COUNTRY

Barritt; William D. Greenfield

US-CL-CURRENT: 340/310.18; 340/3.21, 340/3.54, 340/3.71, 340/310.16, 340/538,

340/825.22

ABSTRACT:

An appliance system is provided having a plurality of appliances. A master controller includes the user-operable appliance controls as well as associated logic controls for controlling the operating components of the appliances. An interface control is physically associated with each controlled appliance and receives control signals for the various operating components from the master controller by way of power line transmission. The master controller effects a repeating sequence of transmitting and receiving control signals in the form of first and second data packages while the interface control effects a repeating sequence of receiving first data packages and transmitting second data packages. The interface control and the master controller will each interrupt operation of the appliances responsive to the absence of either first or second data packages.

12 Claims, 5 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	ettsichments	Claims	KOMO	Drawi De
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☐ 6. Document ID: US 4068114 A

L8: Entry 6 of 10 File: USPT Jan 10, 1978

US-PAT-NO: 4068114

DOCUMENT-IDENTIFIER: US 4068114 A

TITLE: Heater safety control

DATE-ISSUED: January 10, 1978

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Johnson; Philip P. St. Joseph MI DeSchaaf; Clifford L. Stevensville MI

US-CL-CURRENT: <u>392/441</u>; <u>134/57D</u>, <u>134/58D</u>, <u>392/463</u>

ABSTRACT:

A receptacle such as a dishwasher tub having an improved control for effecting

Record List Display Page 5 of 8

filling of the tub to a preselected full level and protecting the apparatus against undesirable overfill in the event the normal flow control malfunctions. The flow control includes a control valve having two valve elements for cooperatively preventing such undesirable overfill. One of the valve elements may be controlled by an electrically operated solenoid, and the other valve element may be controlled by mechanical control structure. In the illustrated embodiment, the electrically controlled valve element is controlled by a timer, and the mechanically controlled valve element is controlled by a float. A heater is provided for heating liquid in the tub and an improved control is provided for controlling the heater so as to prevent energization thereof whenever the sensed liquid volume in the tub is below a preselected minimum. Illustratively, the volume is sensed by a float sensing the level of liquid in the tub and connected to a switch of the control for selectively energizing the heater.

19 Claims, 9 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 3

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims Killic Draw, De

☐ 7. Document ID: US 3982552 A

L8: Entry 7 of 10

File: USPT

Sep 28, 1976

US-PAT-NO: 3982552

DOCUMENT-IDENTIFIER: US 3982552 A

TITLE: Thermal protection for dishwashing machine

DATE-ISSUED: September 28, 1976

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Fraula; Louis F. Troy OH

US-CL-CURRENT: <u>134/57D</u>; <u>134/107</u>, <u>134/108</u>, <u>236/1E</u>

ABSTRACT:

A dishwashing machine having a gas-fired heater is provided with a flue structure having wall portions common to the tank and wash chamber of the machine. While the machine is running liquid splashes against these wall portions and exchanges heat therewith. When the water circulation system is stopped, the heater is limited to a standby condition which is predetermined to maintain these wall portions at substantially the same temperature as during running conditions.

3 Claims, 4 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 1

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

□ 8. Document ID: US 3949782 A

L8: Entry 8 of 10

File: USPT

Apr 13, 1976

US-PAT-NO: 3949782

DOCUMENT-IDENTIFIER: US 3949782 A

** See image for Certificate of Correction **

TITLE: Control circuit for dishwasher

DATE-ISSUED: April 13, 1976

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Athey; Stuart E. Troy OH Lee Vore; Alan Franklin OH Swihart; Donald E. St. Paris OH

US-CL-CURRENT: <u>137/565.01</u>; <u>361/730</u>, <u>361/784</u>

ABSTRACT:

An electrical circuit for controlling various functions in a plurality of dishwashers having common features of a washing chamber containing a quantity of washing solution, means for heating the washing solution, a temperature sensor arranged to respond to the temperature of the solution, a pump for circulating washing solution through a spray head, and an electric motor for driving the pump. The control circuit includes a plurality of circuit boards for controlling the sequence of operation of the dishwasher, overheating protection for the pump motor, and the means for heating the washing solution. Many circuit boards contain indicating lamps in the form of light emitting diodes to indicate proper operation of the circuit. Other circuit boards include optional features, such as automatic initiation of the washing cycle upon the closure of the door.

2 Claims, 8 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 5

Full Title Citation Front Review Classification Date Reference Securification Affaction Claims KMC Draw.											
	Full	Title	Citation	Front	Review	Classification	Date	Reference	Sapence Wellindie	Haims K	MC Draw, De

9. Document ID: US 3911943 A

L8: Entry 9 of 10

File: USPT

Oct 14, 1975

US-PAT-NO: 3911943

DOCUMENT-IDENTIFIER: US 3911943 A

** See image for Certificate of Correction **

TITLE: Control circuit for dishwasher

DATE-ISSUED: October 14, 1975

Record List Display Page 7 of 8

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Athey; Stuart E. Troy OH Vore; Alan Lee Franklin OH St. Paris Swihart; Donald E. OH

US-CL-CURRENT: <u>137/341</u>; <u>417/32</u>

ABSTRACT:

An electrical circuit for controlling various functions in a plurality of dishwashers having common features of a washing chamber containing a quantity of washing solution, means for heating the washing solution, a temperature sensor arranged to respond to the temperature of the solution, a pump for circulating washing solution through a spray head, and an electric motor for driving the pump. The control circuit includes a plurality of circuit boards for controlling the sequence of operation of the dishwasher, overheating protection for the pump motor, and the means for heating the washing solution. Many circuit boards contain indicating lamps in the form of light emitting diodes to indicate proper operation of the circuit. Other circuit boards include optional features, such as automatic initiation of the washing cycle upon the closure of the door.

6 Claims, 8 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 5

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□ 10. D	ocument ID: US 3844299	A					
L8: Entry 10	of 10	File:	USPT		Oct	29,	1974

US-PAT-NO: 3844299

DOCUMENT-IDENTIFIER: US 3844299 A

** See image for Certificate of Correction **

TITLE: CONTROL CIRCUIT FOR DISHWASHER

DATE-ISSUED: October 29, 1974

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Athey; Stuart E. Troy OH Vore: Alan Lee Franklin OH Swihart; Donald E. St. Paris OH

US-CL-CURRENT: <u>134/57D</u>; <u>134/113</u>

ABSTRACT:

An electrical circuit for controlling various functions in a plurality of dishwashers having common features of a washing chamber containing a quantity of Record List Display Page 8 of 8

washing solution, a heater element for heating the washing solution, a temperature sensor arranged to respond to the temperature of the solution, a pump for circulating washing solution through a spray head, and an electric motor for driving the pump. The control circuit includes a plurality of circuit boards for controlling the sequence of operation of the dishwasher, overheating protection for the pump motor, and the heater element. Many circuit boards contain indicating lamps in the form of light emitting diodes to indicate proper operation of the circuit. Other circuit boards include optional features, such as automatic initiation of the washing cycle upon the closure of the door.

2 Claims, 8 Drawing figures Number of Drawing Sheets: 5

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